QC ABSTRACT

NAME OF WORK: Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
11	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
12	PCC(M10)	Compressive Strength(7days and 28days)	2 set /1-5 cum	22.6	8	8
13	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-100 cum	22.6	6	6

Suvetha.NK
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-05-20-74** **Date: 12-11-19**
Customer	:	Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.
Project Name	:	Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)
Agency	:	Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-11-19
Environmental Conditions during test	**09-11-19**	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	_
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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CIVIL Pro Sig. Date BANGALORE

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-20-74** **Date: 11-11-19**
Customer	:	Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.
Project Name	:	Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)
Agency	:	Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-20-74** **Date: 11-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.45	_
6	Water Absorption(%)	0.22	_

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Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-20-74** **Date: 10-11-19**
Customer	:	Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.
Project Name	:	Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)
Agency	:	Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032
Customer Reference	:	BBMP/EE/BTP/WO/124/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-20-74** **Date: 10-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-20-74** **Date: 10-11-19**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-20-74** **Date: 10-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2020-05-20-74** **Date: 15-11-19**
Customer	:	Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.
Project Name	:	Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)
Agency	:	Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/124/2019-20
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-11-19
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	09-11-19

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : **CP-2020-05-20-74** **Date: 15-11-19**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			**10.5**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 22/11/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 13/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 22/11/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 13/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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All information furnished by Customer/Representative
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Suvitha N R
AE W10

Assistant Executive Engineer
Vidhyaranyapura Sub Division
BBMP, Bangalore

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Sig.
Date

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 22/11/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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Sumith. NK
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 13/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Suvetha.N.K
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Assistant Executive Engineer
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BBMP, Bangalore - 97
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Lab ID : **CP-2020-05-20-74** **Date: 22/11/2019**

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Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	22/11/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 13/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-11-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M10	15/11/2019	13/12/2019	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Suvetha .N L
AE W10

Assistant Executive Engineer
Vidhyaranyapura Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 02/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22888	8	584	26	25.6
2	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22720	8	606	27	
3	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22404	8	551	25	

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Sweetha. N K
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-20-74** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Vidhyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidhyaranyapura Sub Division Sub Division, BBMP, Bangalore.

Project Name : Maintanance of UGD lines in Doddabommasandra area in ward no 10(Doddabommasandra)

Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22672	8	761	34	33.0
2	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22788	8	733	32	
3	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22501	8	752	33	

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AE W10

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Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22729	8	583	26	25.5
2	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22707	8	595	26	
3	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22520	8	556	25	

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Suvitha.n.d
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Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22446	8	750	33	33.1
2	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22777	8	741	33	
3	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22277	8	741	33	

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Sweetha.N.K
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Assistant Executive Engineer
Vidhyaranyapura Sub Division
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Agency : Jyothi reddy No 81,A Block, Kaverinagara, R T Magar(P) Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/124/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Pavement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22507	8	565	25	25.0
2	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22819	8	593	26	
3	M30 Pavement Concrete	M30	25/11/2019	02/12/2019	150.22 X 150.54 X 150.55	22492	8	541	24	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-11-19

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22408	8	757	34	33.3
2	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22430	8	723	32	
3	M30 Concrete	M30	25/11/2019	23/12/2019	150.22 X 150.54 X 150.55	22679	8	765	34	

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